



# NAVAL AMMUNITION LOGISTICS CENTER

## SLDCADA Architecture

Time and Attendance  
Working Group  
*30 August 2001*



# **SLDCADA**

## ***Architecture***

- ♦ **Systems Architecture**
- **Security Accreditation**
- **Performance Testing**
  - **Web Version**
- **Smartcard Update**



# SLDCADA

## Architecture

- ◆ *Systems Architecture*

- *Hardware*

- ◆ *Sun Enterprise Servers*
      - *Web Application Servers*
      - *Database Servers*

- *Software*

- ◆ *Operating System (Solaris)*
    - ◆ *Database Engine (Oracle 8i)*
    - ◆ *Enterprise Management (Tivoli)*



# SLDCADA

## Architecture

- ♦ *Systems Architecture (cont'd)*
  - CONUS
    - ♦ *2 Sites*
      - *DISA Mechanicsburg, Pa.*
      - *DISA San Diego, Ca.*
    - ♦ *2 Platform Sets\per Site*
    - ♦ *Network Back-up*
      - *DISA Sites*
      - *Yorktown Remote Network Operations Center (RNOC)*



# SLDCADA

## Architecture

### ■ *Systems Architecture (cont'd)*

#### – OCONUS

- ◆ *2 Sites*
  - *Europe (DISA, Mechanicsburg, Pa.)*
  - *Hawaii\Japan (DISA, San Diego, Ca.)*
- ◆ *1 Platform Set\per Site*
- ◆ *Network Back-up*
  - *DISA Sites (Local Sites)*
  - *Yorktown Remote Network Operations Center (RNOC)*



# SLDCADA

## Architecture

- Security Accreditation
  - Client/Server Version (*Powerbuilder*)
    - ◆ DITSCAP Signed
  - Web Version
    - ◆ IATO (*Signed 8/27/2001*)
    - ◆ DITSCAP
      - Pending Performance Testing for Web Version
    - Signed (*expect NLT 10/30/2001*)



# SLDCADA

## Architecture

### ♦ Performance Testing (Web Version)

#### - Test Platforms

- ♦ *RTE Systems (96 workstations set-up)*
- ♦ *Simulates 1-256 Users per System*
- ♦ *Tests in Progress (completed by 9/15/2001)*

#### - Multiple Tests

- ♦ *Local Yorktown\Test Facility (Chicago, Il.)*
- ♦ *Mechanicsburg to Yorktown*
- ♦ *Mechanicsburg to San Diego*
- ♦ *Yorktown to San Diego*



# SLDCADA

## Architecture

- ♦ *SmartCard Update*
  - *Working Prototype*
    - ♦ *Developed late FY00*
    - ♦ *Supports barcode, magnetic stripe reader, and SmartCard Technologies*
    - ♦ *Provides Low Level routines to update SLDCADA screen fields, database*



# SLDCADA

## Architecture

- ♦ *SmartCard Update (con't)*

- *Next Step (FY02)*

- ♦ *Met with DON CIO Office (Aug 2001)*
      - *Received CAC Developer Kit*
      - *DMDC Demographic API (interface documentation to access DoD Data elements on the CAC)*
      - *CAC Reader Specification*
      - *CAC Middleware Requirements*
    - ♦ *Update Working Prototype Card Access Routines to support DON Standards for Log-On, Email Encryption/Decryption, Electronic Signatures, Authentication, and data storage/retrieval functions.*



# SLDCADA

## Architecture

- ♦ *SmartCard Update (con't)*

- *Next Step (FY02)*

- ♦ *Finalize SLDCADA Requirements for CAC*
    - ♦ *Determine Requirement-based Design Decision on Card Centric vs. Web-Centric Deployment Strategy*
      - *Hybrid Card Architecture (HCA)*
        - *Static Data common to all (card-centric)*
        - *Application\Organizational Specific (Static and/or Dynamic) - Web-Centric*
        - *SLDCADA Architecture supports HCA*